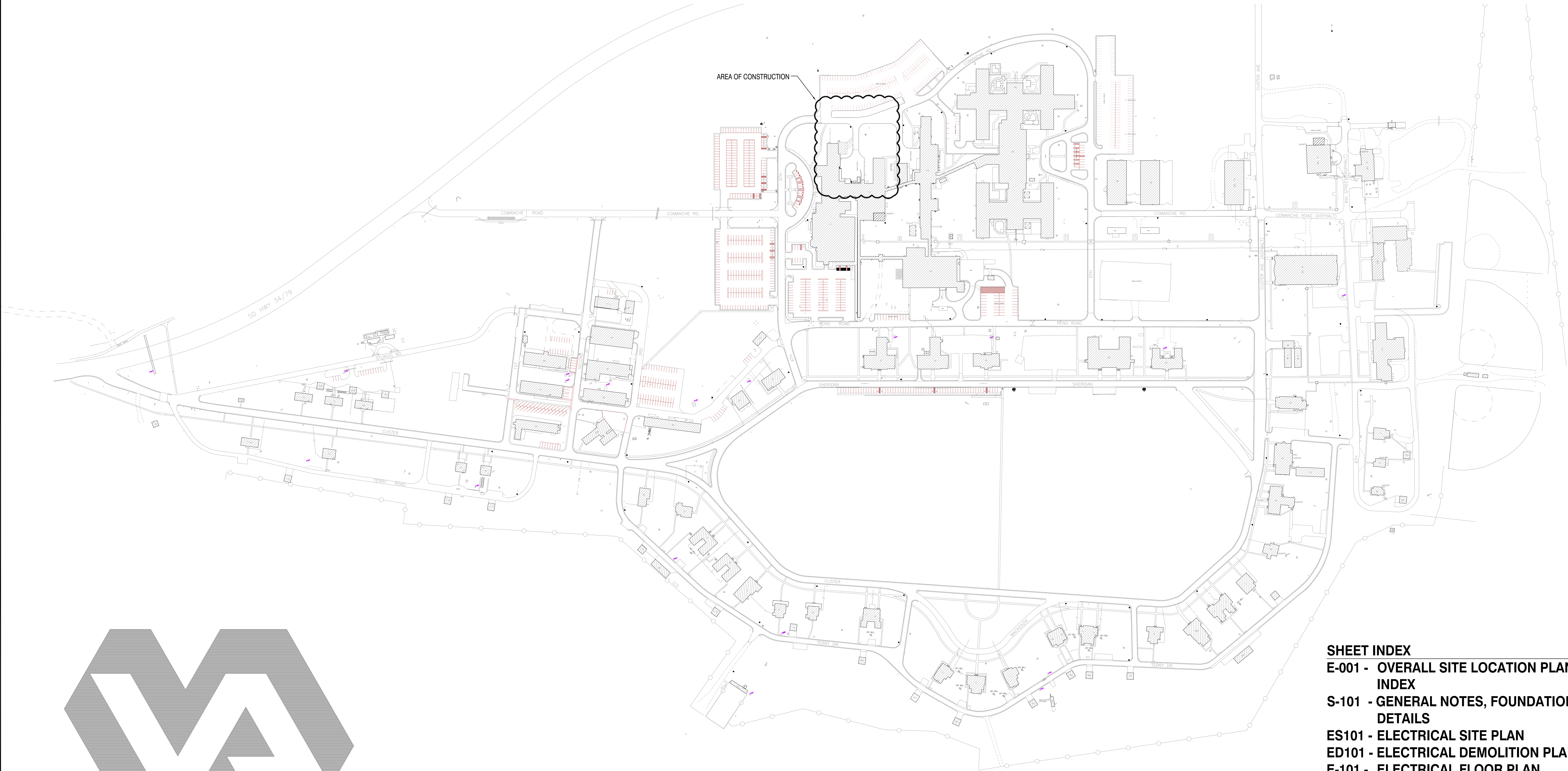


RELOCATE GENERATOR AND UPGRADE EMERGENCY POWER

PROJECT NO. 568-13-101



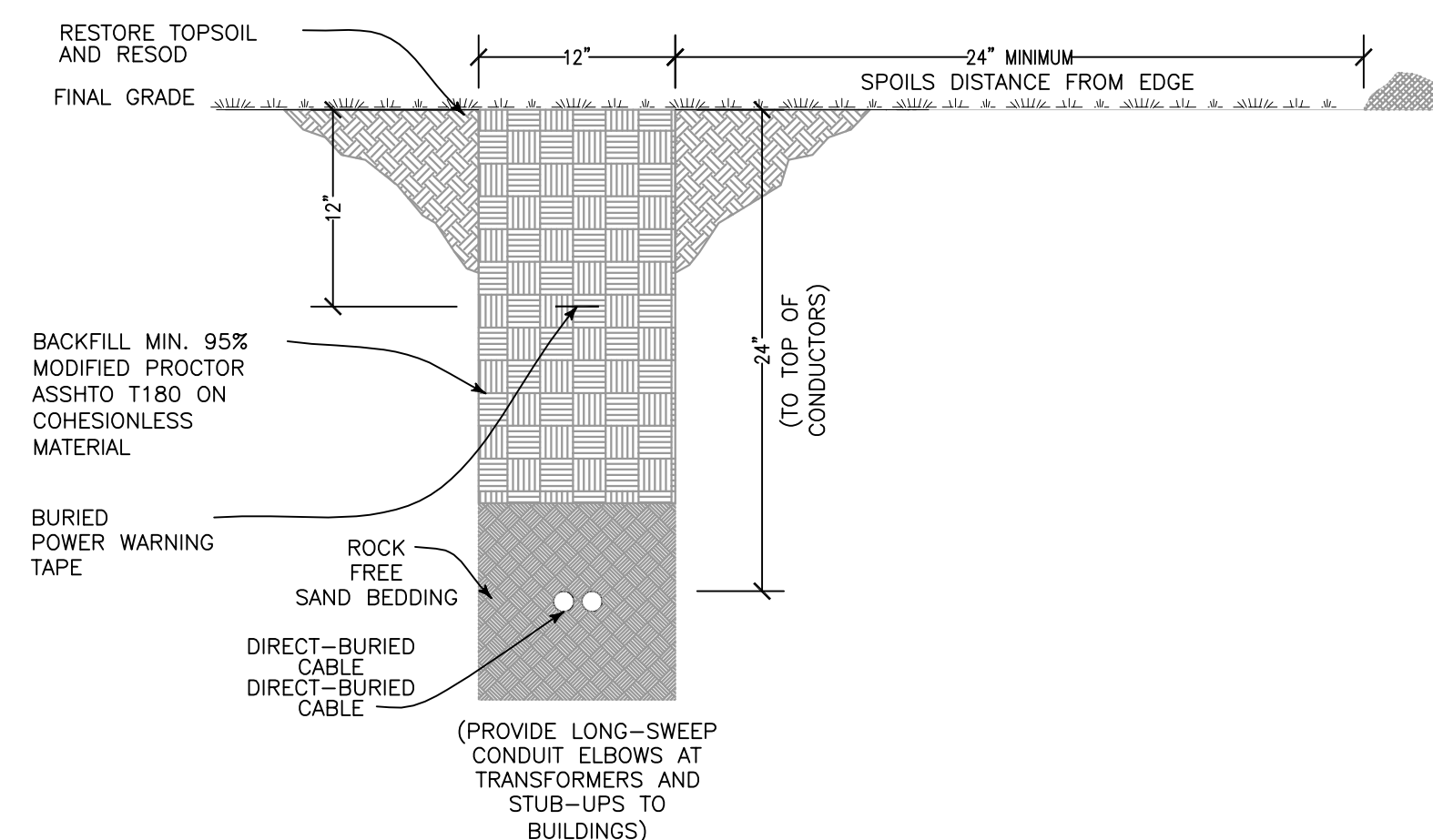
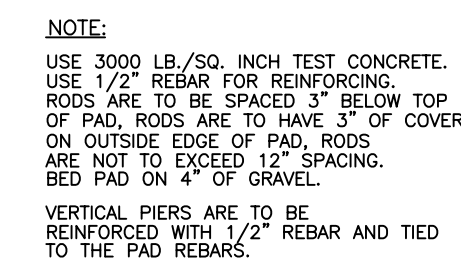
V.A. MEDICAL CENTER

FT. MEADE, S.D.

- SHEET INDEX**
- E-001 - OVERALL SITE LOCATION PLAN AND SHEET INDEX
 - S-101 - GENERAL NOTES, FOUNDATION PLANS AND DETAILS
 - ES101 - ELECTRICAL SITE PLAN
 - ED101 - ELECTRICAL DEMOLITION PLAN
 - E-101 - ELECTRICAL FLOOR PLAN
 - E-601 - PARTIAL DISTRIBUTION RISER DIAGRAM AND SCHEDULES

PLAN NORTH
F1 OVERALL SITE PLAN
SCALE: 1" = 150'-0"

CONSULTANTS:			ARCHITECT/ENGINEERS:		Drawing Title OVERALL SITE PLAN AND SHEET INDEX	Project Title Relocate Generator and Upgrade Emergency Power, Building 113	Project Number 568-13-101 Building Number 113	Office of Construction and Facilities Management 	
			 TSP, Inc. 1112 N. West Ave. Sioux Falls, SD 57104 phone: (605) 336-1160 fax: (605) 336-7926 www.teamtsp.com TSP PROJECT #04131190		Approved Project Director ---	Location Ft. Meade, South Dakota	Drawing Number E-001 Dwg. 1 of 6		
Revisions:						Date 7/19/2013	Checked DLB	Drawn KAK	

CONSULTANTS:A circular professional engineer seal for the State of South Carolina. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF SOUTH CAROLINA" at the bottom, separated by a star. The center of the seal contains the text "REG. NO." above the number "6729", which is above the name "DARRELL L. BREN". A handwritten signature, "Darrell L. Bren", is written across the center of the seal. Below the seal, the date "DATE: 7/19/2013" is printed.

Drawing Title	ELECTRICAL SITE PLAN
Approved Project Director	---

Office of
Construction
and Facilities
Management

 Department of
Veterans Affairs

SHEET GENERAL NOTES

- A. SEE POWER RISER DIAGRAM ON SHEET E-601 FOR ADDITIONAL INFORMATION.
- B. ALL FEEDERS MAY BE TRENCHED, EXCEPT UNDER ALL PAVED AREAS (DIRECT BORE UNDER PAVED AREAS). REFER TO SECONDARY TRENCH DETAIL, THIS SHEET. MULTIPLE FEEDERS MAY BE COMBINED IN A COMMON TRENCH. WHEREVER PRACTICAL, CONTRACTOR TO PROVIDE AS-BUILT LOCATIONS OF FEEDERS. PROVIDE LONG SWEET CONDUIT ELBOWS (TAR-COATED RIGID STEEL) AT TRANSFORMER LOCATIONS AND STUB-UPS TO BUILDINGS. PROVIDE DIRECT-BURY SECONDARY FEEDERS THROUGHOUT UNLESS NOTED OTHERWISE.
- C. PHASING - SEE SHEET E-601.
- D. ANY POWER OUTAGES ASSOCIATED WITH WORK IN THIS PROJECT SHALL BE COORDINATED WITH THE OWNER AND CONDUCTED ON "OFF" HOURS OF THE FACILITY.

SHEET KEYNOTES

1. DISCONNECT AND RELOCATE EXISTING GENERATOR AND ABOVE GROUND FUEL TANK. REMOVE EXISTING CONCRETE PADS IN THEIR ENTIRETY. PATCH CONCRETE TO MATCH EXISTING.
2. REPLACE TR-113-S TRANSFORMER, PROVIDE A NEW PAD MOUNTED 1000KVA 12470V-480V/277 VOLT OLAN TRANSFORMER, PROVIDE 2 SETS OF PRIMARY (2) 1/2" COPPER, 1/2" THICK, 12' LONG, 12" DIA. NEW TRANSFORMER TO EXISTING SECTORIZING SWITCH. PROVIDE BAYONET FUSES WITH FUSE GUARD. PROVIDE SPARE FUSES INSIDE OF TRANSFORMER HOUSING.

PROVIDE US (LOAD BREAK SWITCH) INTERNAL TO TRANSFORMER MENTIONED ABOVE. (GE BREAKMASTER LS - 200A FRAME, 25KA INTERRUPTING RATING, 480V TO 600V) - 1/2" THICK, 12' LONG, 12" DIA. NEW TRANSFORMER. (A INTERRUPTING RATING) OR EQUIVALENT. US SHALL BE CAPABLE OF FEEDING TRANSFORMER FROM EITHER PRIMARY FEEDER I, PRIMARY FEEDER II, OR NEITHER. US SHALL NOT ALLOW BOTH FEEDERS TO BE CONNECTED TO TRANSFORMER.
3. PROVIDE A MINIMUM 2 WEEKS NOTICE IN WRITING TO OWNER OF SHUTDOWN OF BUILDING.

4. BORE NEW EMERGENCY FEEDERS UNDER EXISTING CONCRETE PARKING LOT. ROUTE FROM NEW EMERGENCY SWITCHGEAR UNDERGROUND TO EDGE OF EXISTING BUILDING. TRANSITION TO SURFACE CONDUIT AND RUN ALONG THE OUTSIDE OF THE BUILDING TO EXISTING OPENINGS IN EXTERIOR WALL. REFERENCE DISTRIBUTION RISER DIAGRAM ON SHEET E-601 FOR CONDUIT QUANTITIES.
5. PROVIDE NEW UNDERGROUND 15KV CABLEING FROM EXISTING SWITCH TO TRANSFORMER. LOCATE IN DUCT BANK, REFERENCE DETAIL A7/E5101. SEE DISTRIBUTION RISER DIAGRAM ON SHEET E-601.
6. NEW SWITCHGEAR WALK-IN ENCLOSURE AND CONCRETE PAD, EMERGENCY SWITCHGEAR ENCLOSURE, PROVIDE ENCLOSURE WITH SWITCHGEAR, LOAD CENTER AND ALL INTERNAL ELECTRICAL LIGHTS, RECEPTACLES, SWITCHES, ETC., AS A PACKAGED UNIT WITH NEW EMERGENCY SWITCHGEAR. REFERENCE DETAIL F7/E5101, SHEET S-101 AND SPECIFICATIONS.
7. CONCRETE PAD FOR SWITCHGEAR ENCLOSURE. COORDINATE EXACT SIZE REQUIREMENTS WITH GEAR MANUFACTURER. REFERENCE SHEET S-101.
8. PROVIDE TRANSFORMER AND CONCRETE PAD, SEE DETAIL A1/E5101.
9. MODIFY EXISTING LAWN SPRINKLER SYSTEM AS REQUIRED TO ACCOMMODATE NEW SWITCHGEAR BUILDING AND NEW GENERATOR/FUEL TANK CONCRETE PAD. MOVE/MODIFY SPRINKLER HEADS AND VALVES AS NEEDED.
10. REFERENCE DISTRIBUTION RISER DIAGRAM ON SHEET E-601 FOR CONDUIT QUANTITIES.
11. LOAD CENTER FURNISHED WITH WALK-IN ENCLOSURE. PROVIDE POWER CONNECTION FROM NORMAL POWER ELECTRICAL PANEL IN GENERATOR ENCLOSURE. SEE DISTRIBUTION RISER DIAGRAM ON SHEET E-601.
12. NEW LOCATION FOR EXISTING GENERATOR AND FUEL TANK. PLACE GENERATOR AND FUEL TANK ON NEW CONCRETE PAD THEN RE-ASSEMBLE GENERATOR ENCLOSURE AROUND GENERATOR AND FUEL TANK. NEW FUEL TANK INSIDE OF ENCLOSURE. RECONNECT FUEL LINES AND POWER FEEDS FROM GENERATOR ENCLOSURE TO FUEL TANK. REFERENCE DETAIL B7/E5101 AND SHEET S-101.
13. CONDUITS FOR PLC CABLEING, REFERENCE DISTRIBUTION RISER DIAGRAM ON SHEET E-601 FOR ADDITIONAL INFORMATION.
14. PROVIDE NEW FEEDER TO NEW GEN PANEL LOCATED IN GENERATOR ENCLOSURE.
15. PROVIDE EXHAUST PIPE ON GENERATOR TO EXTEND ABOVE ENCLOSURE. EXISTING CAN BE USED TO TURN UP. PROVIDE NEW SECTION TO GET ABOVE ENCLOSURE (COORDINATE RECOMMENDED HEIGHT WITH MANUFACTURER). PROVIDE RAINCAP. ORIENTATE GENERATOR SO THAT EXHAUST EXITS THE NORTH END OF THE ENCLOSURE.
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PANEL TAG: SWBD-G					VOLTAGE: 480 VOLTS, 3-PHASE, 4-WIRE				
MOUNTING: FLOOR					MAIN AND VERTICAL BUS RATINGS AMPS: 800				
PANEL TYPE: SWITCHBOARD					MIN A.I.C.: 14000 (A)				
CKT	ITEM OR AREA SERVED	DIST KVA	CIRCUIT BREAKER FRAME SIZE # POLES TRIP SETTING	REMARKS					
1	MCC	0.0	800 3 600						
2	113	0.0	(VERTICAL BARRIER)	MOTORIZED SINGLE C/B FOR GEN					
2A		0.0	800 3 600						
3	ST	0.0	(VERTICAL BARRIER)	MOTORIZED SINGLE C/B FOR FUTURE					
3A		0.0	800 3 600						
TOTAL CONNECTED LOAD (KVA)					0.0	ALL BRANCH BREAKERS SHALL BE ELECTRONIC LSI TRIP			
TOTAL DEMAND LOAD (KVA)					0.0				
FEEDER AMPERES DEMAND					0.0				

PANEL TAG: SWBD-ST					VOLTAGE: 480 VOLTS, 3-PHASE, 4-WIRE				
MOUNTING: FLOOR					MAIN AND VERTICAL BUS RATINGS AMPS: 800				
PANEL TYPE: SWITCHBOARD					MIN A.I.C.: 14000 (A)				
CKT	ITEM OR AREA SERVED	DIST KVA	CIRCUIT BREAKER FRAME SIZE # POLES TRIP SETTING	REMARKS					
1	MLO	0.0	800 3 600						
1A	MLO LUGS	0.0	(VERTICAL BARRIER)						
2	SAFETY	0.0	250 3 150						
2A	SPARE SPACE	0.0	400 3	SECTION: LS PROVIDE VERTICAL BARRIERS AND METERING FOR THIS SECTION					
2B	SPARE SPACE	0.0	400 3						
2C	SPARE SPACE	0.0	200 3						
2D	SPARE SPACE	0.0	200 3						
3	CRITICAL	0.0	(VERTICAL BARRIER)						
3A	SPARE	0.0	800 3 400	SECTION: CR PROVIDE VERTICAL BARRIERS AND METERING FOR THIS SECTION					
3B	SPARE SPACE	0.0	400 3						
3C	SPARE SPACE	0.0	200 3						
3D	SPARE SPACE	0.0	200 3						
4	EQUIPMENT BRANCH	0.0	(VERTICAL BARRIER)						
4A	SPARE	0.0	800 3 600	SECTION: EQ PROVIDE VERTICAL BARRIERS AND METERING FOR THIS SECTION					
4B	SPARE SPACE	0.0	400 3						
4C	SPARE SPACE	0.0	200 3						
4D	SPARE SPACE	0.0	200 3						
TOTAL CONNECTED LOAD (KVA)					0.0	ALL BRANCH BREAKERS SHALL BE ELECTRONIC LSI TRIP			
TOTAL DEMAND LOAD (KVA)					0.0				
FEEDER AMPERES DEMAND					0.0				

PANEL TAG: 113 EM SWBD					VOLTAGE: 208 VOLTS, 3-PHASE, 4-WIRE				
MOUNTING: FLOOR					MAIN AND VERTICAL BUS RATINGS AMPS: 1200				
PANEL TYPE: SWITCHBOARD					MIN A.I.C.: 10000 (A)				
CKT	ITEM OR AREA SERVED	DIST KVA	CIRCUIT BREAKER FRAME SIZE # POLES TRIP SETTING	REMARKS					
1	MLO	0.0	1200 3 1200						
1A	MLO LUGS	0.0	(VERTICAL BARRIER)						
2	EM-EMERGENCY BRANCH	0.0	800 3 600						
2A	ATS-CR	0.0	400 3 200						
2B	ATS-LS	0.0	400 3 200						
2C	ATS-DC	0.0	400 3 200						
2D	SPARE SPACE	0.0	400 3	SECTION: EM PROVIDE VERTICAL BARRIERS AND METERING FOR THIS SECTION					
2E	SPARE SPACE	0.0	400 3						
2F	SPARE SPACE	0.0	200 3						
2G	SPARE SPACE	0.0	200 3						
3	EQ-LEGALLY REQUIRED	0.0	(VERTICAL BARRIER)						
3A	ATS-EQ	0.0	1200 3 800	SECTION: EQ PROVIDE VERTICAL BARRIERS AND METERING FOR THIS SECTION					
3B	ATS-EQ CHILLER	0.0	800 3 400						
3C	SPARE SPACE	0.0	400 3						
3D	SPARE SPACE	0.0	200 3						
3E	SPARE SPACE	0.0	200 3						
TOTAL CONNECTED LOAD (KVA)					0.0	ALL BRANCH BREAKERS SHALL BE ELECTRONIC LSI TRIP			
TOTAL DEMAND LOAD (KVA)					0.0				
FEEDER AMPERES DEMAND					0.0				

PANEL TAG: CR					VOLTAGE: 120/208 VOLTS, 3-PHASE, 4-WIRE				
MOUNTING: SURFACE					MAIN BUS RATING AMPS: 600				
PANEL TYPE: DISTRIBUTION					MIN A.I.C.: PER COORD STUDY (A)				
CKT	ITEM OR AREA SERVED	DIST KVA	CIRCUIT BREAKER FRAME SIZE # POLES TRIP SETTING	REMARKS					
1	PANEL E102	28.0	250 3 100						
2	PANEL E103	28.0	250 3 100						
3	PANEL E104	28.0	250 3 100						
4	PANEL 2CCI	56.0	400 3 200						
5	PANEL 2NCI	56.0	400 3 200						
6	PANEL E107 ICU	36.0	250 3 125						
7	MRL	28.0	250 3 100						
8	PANEL LSCI	20.0	100 3 70						
9	B30 UNIT DOSE	17.0	100 3 60						
10	BLOOD BANK	2.9	100 1 30						
11	EXISTING LOAD	1.9	100 1 20						
12	SPACE	0.0	400 3						
13	SPACE	0.0	200 3						
14	SPACE	0.0	100 3						
15	SPACE	0.0	100 3						
TOTAL CONNECTED LOAD (KVA)					301.8				
TOTAL DEMAND LOAD (KVA)					301.8				
FEEDER AMPERES DEMAND					837.7				

PANEL TAG: EQ					VOLTAGE: 120/208 VOLTS, 3-PHASE, 4-WIRE				
MOUNTING: SURFACE					MAIN BUS RATING AMPS: 400				
PANEL TYPE: DISTRIBUTION					MIN A.I.C.: PER COORD STUDY (A)				
CKT	ITEM OR AREA SERVED	DIST KVA	CIRCUIT BREAKER FRAME SIZE # POLES TRIP SETTING	REMARKS					
1	MCC M100/ICU	115.0	600 3 400						
2	MCC-301	115.0	600 3 400						
3	PMCC	86.0	600 3 300						
4	VAC PUMP BLDG 113	28.0	250 3 100						
5	BE09 BE07	20.0	100 3 70						
6	ATC COMPRESSOR	20.0	100 3 70						
7	BE09/BE07	20.0	100 3 70						
8	SPARE	20.0	100 3 70						
9	SPACE	0.0	400 3						
10	SPACE	0.0	400 3						
11	SPACE	0.0	200 3						
12	SPACE	0.0	200 3						
TOTAL CONNECTED LOAD (KVA)					424.0				
TOTAL DEMAND LOAD (KVA)					424.0				
FEEDER AMPERES DEMAND					1176.9				

PANEL TAG: GEN					VOLTAGE: 120/208 VAC, 3-PHASE, 4-WIRE				
MOUNTING: SURFACE					FEED THRU LUGS [] C.B. [X] AMPS: 100				
FEEDER: (SEE RISER DIAGRAM)					MIN A.I.C.: PER COORD STUDY (A)				
PANEL TYPE: LTG & APPLIANCE									
CKT	ITEM OR AREA SERVED	O/C PROT	DIST KVA	P	DIST KVA	O/C PROT	ITEM OR AREA SERVED	CKT	
1	UNIT HEATER	202	1.6	A	1.6	201	LIGHTS	2	
2			1.6	B	1.6	201	OUTLETS	4	
3			0.0	C	1.6	201	NEW HEAT RACE	6	
7	EM SWBD ENCLOSURE	603	5.7	A	1.6	201	BATTERY CHARGER (WATER)	8	
11	SPARE	201	0.0	C	1.6	201	AIR FLOW LOUVERS	10	
13	UPS OUTLET	201	1.6	A	0.0	-	SPACE	14	
15			1.1	B	0.0	-	SPACE	16	
17	POWER MONITOR	203	1.1	C	1.5	151	DAY TANK PUMP 1	18	
19			1.1	A	1.5	151	DAY TANK PUMP 2	20	
21	SPARE	201	0.0	B	0.4	151	CONTROL POWER	22	
23	SPARE	201	0.0	C	0.0	-	SPACE	24	
25	SPARE	201	0.0	A	0.0	-	SPACE	26	
27	SPACE	-	0.0	B	0.0	-	SPACE	28	
29	SPACE	-	0.0	C	0.0	-	SPACE	30	
TOTAL CONNECTED LOAD (KVA)					26.8				
TOTAL DEMAND LOAD (KVA)					27.3				
FEEDER AMPERES DEMAND					75.7				

PANEL TAG: LS				VOLTAGE: 120/208 VAC, 3-PHASE, 4-WIRE				
MOUNTING: SURFACE				MAINS: LUG [] C.B. [] AMPS: 225				
FEEDER: (SEE RISER DIAGRAM)				FEED THRU LUG []				
PANEL TYPE: LTG & APPLIANCE				MIN A.I.C.: PER COORD STUDY				
CKT	ITEM OR AREA SERVED	O/C PROT	DIST KVA	P	DIST KVA	O/C PROT	ITEM OR AREA SERVED	CKT
1			0.0	A	0.0			2
3	GEN PANEL	100/3	28.0	B	28.0	100/3	PANEL ISLS	4
5			0.0	C	0.0			6
7			2.5	A	1.9	201/	ELEVATOR	8
9	UNIT HEATER	30/2	2.5	B	1.9	201/	EXISTING LOAD	10
11	DOOR SECURITY	201/	1.9	C	1.9	201/	DUCT DAMPERS	12
13	ATC AIR DRYER	301/	2.8	A	0.0			14
15	FUEL MONITORS	201/	1.9	B	0.0	60/3	SPARE (ICLS PANEL)	16
17	GEN PNL	100/1	1.9	C	0.0			18
19	EHU LTS B201 B27-B29	201/	1.9	A	1.9	201/	F.A. PANEL	20
21	CRIT LTS	201/	1.9	B	0.0		SPACE	22
23	DAY DOSE	201/	1.9	C	1.9	201/	EXISTING LOAD	24
25	B02 N. RECEP.	301/	2.8	A	1.9	201/	PHARM	26
27	PHONE BOARD TB113A	201/	1.9	B	0.0	201/	PHARM POWER POLE	28
29			2.8	C	1.9	201/	PHARM STOR REFRIG	30
31	ZOLS	30/3	2.8	A	1.9	201/	EXISTING LOAD	32
33			2.8	B	1.9	201/	ICU HALL LTS & STAIRWELLS	34
35	SPACE	-	0.0	C	1.9	201/	ICU MED GAS ALARM PANEL	36
37	SPACE	-	0.0	A	0.0	-	SPACE	38
39	SPACE	-	0.0	B	0.0	-	SPACE	40
41	SPACE	-	0.0	C	0.0	-	SPACE	42
TOTAL CONNECTED LOAD (KVA)			109.2					
TOTAL DEMAND LOAD (KVA)			110.6					
FEEDER AMPERES DEMAND			307.1					